Journal of Applied Polymer Science

Subject Index to Volume 48

Acetone solution, 419
Acetylation, 787
Acoustic emission (*AE*), 2123
Acrylic latex films, 1689
Activation volume, 1177
Additives, 219, 1607
Adhesion, 845
Adhesive agent, 375
Adhesive bonding, 359
Adhesives, 2135
Adsorbents, 299
Aerospace technology, 451
Ageing, 529
Aggregate formation, 1571
Aging process, 1935
Air atmosphere, 1717
Alkylation, 1441
All-variables algorithm, 1923
α relaxations, 2041
Alumina, 1701
Amorphous phase, 313
Analytic gas permeability fractometer, 1331
Analytical extraction of additives, 1607
Anionic and zwitterionic aniline–formaldehyde condensates, 1953
Anionic polymerization, 833
Anionic residues, 419
Anionically induced cure, 257
Annealing, 987
Antibody (Ab) release, 1493
Antimony catalyst remnants, 1997
Aqueous dispersions, 495
Aqueous ring-opening metathesis polymerization (ROMP), 1289
Aqueous solutions, 435, 1571, 2091
Aqueous systems, 1531
Aromatic compounds, 1081
Aromatic polyimides, 451, 1587, 1739
Arrhenius equation, 557
Artificial membranes, 67
ASTM tests, 2225
Atomic oxygen, 1341
Attenuated total reflectance–Fourier transform infrared (ATR–FTIR), 187
Attenuated total reflection (ATR), 1229

Backbone chains, 1935
Balsa wood, 2241
Balsa wood–polymer composites, 2241
Batch polymerization, 355
Beads, 2033
β relaxations, 2041
Biaxial stretching, 1399
Biaxially oriented pet films, 1649
Biodegradable polymers, 1781
Bioreactors, 787
Blend ratio, 529
Blends, 85, 383, 411, 521, 529, 547, 563, 611, 747, 935, 945, 1051, 1271, 1677, 1701, 1731, 2249
Block copolymers, 833
Bond interchange reactions, 953
Bowing phenomenon, 1399
Brittle to ductile transition, 411
Brittleness, 1303
Brittle-tough (BT) transition, 945
Bruce Hartmann (BH) eos, 1923
Bulk polymerization, 425

Cantilever loading conditions, 1765
Carbon black(s), 1621, 1795
Carbon fiber, 1121, 1987
Carbon fiber precursor, 1485
Carbon-13 nuclear magnetic resonance (^{13}C-NMR) spectroscopy, 1313
Carreau models, 2101
Catalytic activity, 721
Catalytic grafting, 121
Cation binding capacity, 1501
Cation-exchange membranes, 2113
CCl_4 plasma treatment, 1963
Cell-associated enzymes, 1081
Cellulase treatment, 1223
Cellulose-based fibers, 683
Cellulosic fibers, 1223
Chain extenders, 2095
Chain transfer agent, 2033
Chain-of-rotators (COR), 1923
Charge density, 1441
Charge-transfer mechanism, 225
Chemical analysis, 1009
Chemical initiators, 505
Chemical recycling, 443
Chemical structure–physical properties relationship, 1023
Chitosan, 343, 1565
CH-type catalysts, 2173
Coating(s), 465, 603
Collapse stress, 767
Colloidal applications, 1571
Color removal, 299
Comonomer enhancement, 721
Compatibilization, 1677
Compatibilization technology, 611
Compatibilizer, 611
Complex hardeners, 639
3-Component cationic microemulsion, 775
Composite films, 2063
Composite membrane, 999
Composite propellants, 271, 279
Composite sandwich structure, 603
Composites, 243, 375, 383, 505, 1271, 1795, 2181, 2225, 2241
Concentration-dependent diffusivities, 939
Congo Red, 1223
Contact-angle hysteresis, 1579

Continuous corotating twin screw extruder, 383
Controlled antibody release, 1493
Conventional emulsion polymerization, 205
Copolymerization, 425
Copolymerization kinetics, 721
Copper substrates, 465
Coprecipitation, 721
Corona discharge, 1825
Cotton, 1869
Cotton cellulose, UV-radiation-induced graft-copolymerization, 1877
Cotton fabric, 1475
Cotton fibers, 393
Craze flow stress, 85
Craze velocities, 85
Critical pigment volume concentration (CPVC), 1701
Cross models, 2101
Crosslink densities, 1515
Cross-linked polyethylenes (XLPE), 701, 711
Crosslinking, 151, 167, 181, 343, 583, 981, 1441
Cross-linking, 57, 657, 669, 745, 931, 1105, 1709, 1749, 1795, 1973
Crosslinking density, 583
Cross-linking density, 1137
Cross-polarization (CP), 677
Crystal growth, 1987
Crystallinity, 219, 711, 741, 1635, 1795, 1915, 2003, 2023
Crystallites, 1321
Crystallization, 509, 557, 1297, 1987, 1997
Crystallization kinetics, 1035
Curative, 529
Cure, 257
Cure schedules, 291
Cure temperature, 1303
Cured rubber, 1621
Curing, 583, 1259, 2055
Curing kinetics, 151, 905
Cut-growth resistance, 809

Deformation, 611
Deformation behavior, 1383, 1399
Degradation, 787, 1341, 2063
Degradation cross-linking, 669
Dehydrochlorination, 237, 1853
Demixing-solvent system, 1127
Denaturation enthalpy, 137
DGEBA/DDS epoxy system, 1303
Die drawing, 2213
Differential scanning calorimetric (DSC) technique, 1475
Differential scanning calorimetry (DSC), 151, 711, 1701, 1757, 1997
Differential thermal analysis (DSC), 1831
Diffraction property, 371
Diffusion, 857
Dilution-at-cure (C_x), 1383
Direct dye, 1223
Direct dye removal, 299
Dispersants, 435, 1953
Disperse phase, 1731
Dithiols, 1781
Domain size, 529
Doped anions, 2207
Double-bound formation, 1973
Draw ratio, 987
Droplet size, 1731
Drug delivery, 1493
Dry jet/wet spinning method, 683
Dry/wet phase inversion process, 2161
Ductile fracture, 411
Durable press finishes, 1475
Durable press treated cotton fabrics, 1475
Dyeability, 1223
Dyes, 1953
Dynamic cross-linking, 2181
Dynamic mechanical analysis (DMA), 1115, 1701
Dynamic mechanical properties, 1089
Dynamic mechanical test, 603
Dynamic storage modulus (E'), 677

EC-PEG4000 allow membranes, 2091
Effluents, 299
Elastomers, 809
Electric strength, 1587
Electrical insulation, 701
Electrical insulation applications, 1587
Electrochemical impedance spectroscopy (EIS) technique, 2197
Electromigration (dc) technique, 2197
Electron and charged particle emission (*EE/PIE*), 2123
Electron beam mutual irradiation, 1121
Electron paramagnetic resonance (EPR) spectroscopy, 1843
Electron-beam irradiation, 1973
Electronic applications, 465
Electropolymerization rates, 477
Ellis models, 2101
Elongation, 1515
Emission phenomena, 2123
Empirical Tait equation, 1061
Emulsion polymerization, 1279, 1449, 1461, 1539, 1811
Emulsions, 1773
Encapsulation, 1209
End-group analysis technique, 443
Enhanced laminate damping, 1801
Enzymatic degradation, 787
EPDM-40 rubber, 1417
Epoxy resins, 237, 583, 793, 1259, 1303, 1859, 1873
Equations of state, 1061
Equilibrium melting temperature, 1321
ESCA studies, 1579
Exo-Diels–Adler adduct, 1289
Exploded lignin, 1485
Extended-length netted wound composite shells, 1765
External lubrication, 897
Extruder, 871
Extrusion, 557
Extrusion processing, 1665
Extrusion-molded sheets, 2147
Eyring equation, 1177

Fabric coatings, 1723
Fiber characterization, 1009
Fiber preparation, 1501
Fiber-reinforced composites, 243
Fibers, 375, 393, 477, 683, 1501, 1869

Fickian transport, 857
Filler(s), 529, 603, 730
Filler particles, 1701
Filler-matrix interaction, 603
Film formation, 1369
Films, 787, 1249, 1557, 1635, 1649, 1689, 1717, 1739, 1825, 1963, 2063
Finite element method (FEM), 1399
Flory–Rehner equation, 711
Flow behavior, 557
Fluidization, 1433
Fluoroplastic micropowder, 809
Fluoropolymers, 1973
Fourier transform infrared (FTIR) microspectroscopy, 2147
Fourier transform infrared spectroscopy (FTIRS), 465, 793, 1781
Fox mixing equation, 1723
Fraction I, 1313
Fraction II, 1313
Fraction III, 1313
Fractionation, 1127
Fractography, 1689
Fracture properties, 1303
Fracture surface morphology, 2147
Free volume, 1935
Free-radical terpolymerization, 1115
Free-volume theory, 1905
Fresnel coefficients, 1229
FTIR spectrophotometry, 931
Fumed silica, 1773
Functional monomers, 1151
Functional polymers, 1571
Functionalized polysulfone membranes, 1597

G(scission), 741
G. rufobrunnae silk fibroin, 99
γ irradiation, 181
Gamma-radiation induced grafting, 495
Gas permeability, 231
Gas permeability coefficients, 107
Gas transport, 107, 2161
Gas transport properties, 1831
Gel effect, 1811
Gel networks, 1115
Gel permeation chromatography (GPC), 419, 1531
Gel point study, 887
Gelatin films, 1557
Gelled membrane, 335
Gel–water dispersions, 625
Glass fiber addition, 730
Glass transition temperature (T_g), 529, 1723, 1859
Glassy polymer membranes, 939
Glassy polymers, 319
Glow discharge plasma treatment, 1417
Graft copolymerization, 575, 2113
Graft polymerization, 1249, 1409, 1825
Graft SAN–PB phase separation, 945
Grafted novoloid fiber, 1121
Grafting, 2113, 657, 921, 1449, 1461, 1579
Graphite fibers, 477
Growth mechanisms, 1449
Guar gum, 495
Gutta-percha (transpolyisoprene), 987

Hazardous waste remediation, 1565
Heat-resistant engineering plastics, 1945
Heat-resistant fibers, 1945
Heat-resistant thermosetting polyimides, 451
HEMA, 1877
Heterogeneous modification, 1597
High density polyethylene (HDPE) melts, 557
High molecular weight monodisperse polystyrene (PS) latexes, 1279
High molecular weight polyethylene (HMWPE), 2213
High speed tensile testing, 1689
High-impact polystyrene (HIPS), 75
High-performance liquid chromatography (HPLC), 1313
High-pressure differential scanning calorimetry (HPDSC), 137
High-temperature thermoplastic polymers, 897
Hoffman–Weeks procedure, 1321
Honeycomb, 1739
HTPB resin, 271
HTPB-based copolyurethane networks, 1515
HTPB-based propellants, 271, 279
Humidity dependence, 1557
Hydrogels, 343
Hydrolysis, 443, 1781
Hydrolytic degradation, 443
Hydrophilic modification, 1963
Hydrophilic polyurethanes, 1723
Hydrophobic membranes, 2081

Imidization, 1587
Imidization temperature, 291
Immobilized ALP, 1189
Immobilized liquid membranes (ILM), 2081
Indentation time dependence, 1177
Infrared (IR) spectroscopy, 151
Injection moldings, 730, 751
In-plane crystalline orientation distribution, 1635
Integral-asymmetric membranes, 2161
Interchain interactions, 1935
Interfacial adhesion, 845, 2181
Internal friction technique, 747
Interpenetrating networks (IPNs), 1709
Interpenetrating polymer networks (IPNs), 1183
Interphase, 243
Interpolymer complexes, 215
Interrupted plasma treatment, 1417
Inverse GPC, 745
Inversion recovery cross-polarization (IRCP), 1701
Ion carrier, 335
Ionic migration, 405
iPP macroradicals, 1843
IR MATR (multiple attenuated total reflection) spectroscopy, 1417
IR spectroscopy, 1009

Irganox 1076, 1905
Irradiation, 113, 371, 575
Irradiation parameters, 1885
Isoporous resins, 745
Isothermal crystallization, 1987
Isothermal crystallization kinetics, 1997
Isothermal crystallization temperature (T_c), 1321
Isothermal cures, 257
Isotropic film transport properties, 2161

Jeffamine (D-230), 1873
Jeffamine/bismaleimide resins, 1873

Keratins, 137
Kevlar fibers, 845
Kinetics, 237, 775, 793, 905, 1757
Kneading, 383

Latex particles, 1539
Latex rubber-modified polystyrene, 75
Latexes, 1279, 1369, 1689, 1773
Lead-containing stabilizers, 657
Levenberg Marquardt's algorithm, 2101
Lightweight coated paper, 603
Lignin(s), 1485, 1757
Lignin-based carbon fiber, 1485
Lignin-based macromonomers, 819
Lignocellulosic materials, 1
Lithiation, 1597
Lithium battery application, 405
Living radical mechanism, 425
Low molecular weight oligomers, 1549
Low pH system, 1409
Low temperature slow rate penetration test, 969
Lower critical solution temperatures (LCST), 21
Lubricating fluid, 897

MAA monomer, 1717
MacBain quartz spring balance, 2197
Macromonomers, 819
Magnetic latex particles, 1539
Matrix–fiber interface, 375
Mean cross-polarization time constants $\langle T_{CH} \rangle$, 677
Mechanical relaxations, 2041
Melt blends, 945
Melt crystallization, 1997
Melt cure temperatures, 2055
Melt extrusion, 981
Melt grafting, 1199
Melt index, 1795
Melting point, 711
Melting temperatures, 1987
Melt-liquid temperature (T_l), 1321
Melt-state curing, 2055
Membrane functionalization, 1597
Membranes, 187, 199, 231, 1441, 1525, 1831, 1897
Metal cations, 1501
Metal salts, 1105
Metal-binding properties, 1565
Metal-containing cured resins, 1105
Metallic ions, 2091
Metalliferous epoxy–chelate polymers (MECP), 639
Method of TIESF, 639
Microbial degradation, 1081
Microcellular foams, 767
Microdeformation behavior, 411
Microemulsion polymerization, 775
Microhardness, 1177
Microphase separation, 509
Mineral-filler addition, 730
Miniemulsion terpolymerization, 205
Minimum film temperature (MFT) measurements, 1369
Miscibility, 547, 747, 833, 935
Mixing, 1731
MMA content, 1015
MMA/HEMA copolymer ratio, 1897
Mobility, 1701
Moisture, 987
Mol wt between chemical crosslinks (M_c), 1383
Molecular chain packing, 583
Molecular mobility, 2041
Molecular motion, 677
Molecular organization, 683
Molecular weight, 741, 867, 2249
Molecular weight estimation, 355
Monodisperse particles, 1279
Monomer content, 2113
Monomers, 257, 921, 1183
Mooney–Rivlin equation, 1137
Morphology–permeability relationships, 1649
Morphology–property relationships, 1635
Mutual irradiation method, 575

Naphthalenesulfonate formaldehyde condensates (NSF), 1953
Natural convection tests, 625
Natural rubber networks, 1137
Naturally functionalized triglyceride oils, 1035
Negative temperature coefficient (NTC), 1795
Network deformation, 1383
Neutral particle emission (*NE*), 2123
Newtonian behavior, 2055
Nonfunctional polymers, 575
Nonideal networks, 1137
Nonoxidative, hydrogen-abstracting initiators, 1199
Nonsolvents, 13
Novolac resins, 563
Novoloid fiber, 1121
Nuclear magnetic resonance (NMR), 793, 1781
Nucleation, 1987
Nylon, 563

OD stretch mode, 319
Olefinic bonds, 1749
Oligomers, 1549
Optical absorbency, 1557
Organic fibers, 845
Orientation distribution, 2147
Orientation gradients, 1229
Oriented PET films, 1635
Oxidative ring cleavage, 1081
Oxygen permeability, 1649

Packing fraction, 37
Paint formulations, 1549
Particle filler, 751
Particle interaction coefficient, 25
Particle nucleation, 1449, 1461
Particle size, 75
Particulate morphology, 1051
Payne cup method, 2197
PC–PBT blends, 2249
Pendant unsaturation, 167
Permachor method, 107

Permanganic etching technique, 2213
Permeability, 1525
Permselective membranes, 13
Peroxide initiators, 1199
Pervaporation, 199, 999
PET crystallinity, 1035
PET films, 2197
pH, 1369
Phase behavior, 521, 547
Phase relationships, 13
Phase separation, 21, 547, 905
Phase structure, 1731
Phase-separated systems, 521
Phase-separation, 767
Phenolic antioxidant, 1843
Phenolphthalein, as chain extenders, 2095
Phenolysis, 1485
Phenyl ring orientation factor (PROF), 1649
Photochemically modified thin-film composite membranes, 187
Photocross-linking, 701, 711
Photodiscoloration, 1885
Photografting, 1717
Photoinitiators, 1163, 1877
Photoirradiation, 1717
Photon emission, 2123
Photooxidation, 1885
Photovoltaic cells, 2207
Photoyellowing, 113
Pigment binders, 1549
Pilot plant, 1399
Plasma gas species, 845
Plasma polymer interactions, 57
Plasma polymerization, 1433
Plasma treatment, 57
Plasma-deposited siloxane coatings, 1331
Plasma-polymerized pyrrole (PPPy), 1353
Plasma-treated Kevlar™, 121
Plastic waste, and the marine environment, 2063
Plasticization, 1369
Plasticized PVC, 669
Plasticizer, 1701
Poly(dimethylsiloxane) (PDMS), crystallinity, 1297
Poly(ether ether ketone) (PEEK), 1987
Poly(ethylene oxide) (PEO), crystallinity, 1297
Poly(tetrafluoroethylene–hexafluoropropylene–vinylidene fluoride) TFB films, 1249
Poly(vinyl alcohol) (PVA) films, 313
Poly(vinylene carbonate)–Jeffamine® hydrogel beads, 1189
Polyacid–polybase interpolymer complexes, 215
Polyamides, 1749
Polyaramid–metal complexes, 1241
Polyenes, 1885
Polyepichlorohydrin (PECH) rubbers, 1259
Polyester PET fibers, 1009
Polyester–imides, 1151
Polyetrahydrofuran (PTHF) polymers, 1915
Polyimide films, 291
Polymer liquids, 1061
Polymer matrices composites, 1009
Polymer melts, 1923
Polymer surface activation, 1417
Polymer/dye junction, 2207
Polymer–fiber composites, 121
Polymeric melts, 1425
Polymeric photoinitiators, 1163
Polymeric solid electrolytes (PSE), 405
Polymeric stabilization, 1449
Polymer-laminated steel sheets, 1801
Polyolefins, 359, 1905
Polypropylene films, 1963
Polysaccharides, 1313
Polyurethane engineering thermoplastics, 2003, 2023
Pore structural parameters, 745
Pore-size distribution, 2033
Positive temperature coefficient (PTC), 1795
Positively charged main chain, 1441
Powders, 1433
PPO–epoxy blends, 1051
Precursor emulsions, 1773
Prehump II, 419
Prepolymer technique, 2003
Pressure, 355
Pressure–volume–temperature (PVT) relationships, 1061
Primacor resin (5980), 1501
Primers, 359
Propellant binders, 1515
Propellant formulation experiments, 279
Propellant formulations, 271
Protein, 371
PVA membranes, 1525
Pyrolysis gas chromatography (GC)/mass spectrometry (MS), 1353

Radiation, 371, 741
Radiation crosslinking, 167
Radiation degradation, 1973
Radiation grafting, 1249
Radiation-induced grafting, 575
Radical copolymerization, 819
Radicals, 1183, 1843
Radio wave emission (*RE*), 2123
Random-linked *cis*-PB networks, 887
Reactive extrusion, 871, 981
Recycled blends, 611
Recycling, 443
Release characteristics, 1209
Resin solutions, 2101
Resins, 271, 279, 583, 1259
Ring-opening polymerization, 505
Rose, Ungar, and Kerwin (RUK) theory, 1801
Rubber seed oil (RSO), 1853
Rubber surface oxidation processes, 1417
Rubber toughening, 181, 1259
Rubber-toughened polymers, 75

Scanning electron microscopy (SEM), 1369, 1689, 1897, 1953, 2147, 2213
Schiff's base coordination polymers, 1241
Sealed packaging, 969
Secondary ion mass spectrometry (SIMS), 1
Segmental motion, 405
Segmented polyurethane, 2095
Segmented polyurethaneurea (PUU), 867
Selective ion complexing agent, 335
Semibatch emulsion polymerization, 1811
Semibatch emulsion

polymerization, open-loop stability, 1811
Semibatch simulations, 1461
Semi-crystallinity, 1023
Semi-interpenetrating polymer networks (semi-IPNs), 343, 953, 1183
Separability, 1525
Separation of sulfur dioxide (SO_2), 1525
Shear moduli, 1383, 1425
Shear rate, 557
Shear stress, 557
Side-chain photoreactive groups, 1163
Silane coupling agent, 1089
Silica-filled EVA rubber, 1089
Silicone rubber coating, 999
Silk fibers, 99, 113, 1409
Siloxane plasma, 1331
Single-ion conduction, 405
Slow puncture resistance, 969
Soft-segment structure, 867
Sol–gel transition, 371
Solid-state NMR characterization, 2173
Solid-state studies, 1915
Solubility, 13, 1209, 1289
Solubility parameters, 1151
Solute–solvent interaction, 435
Solution viscosities, 25
Solutions, 37
Solvent resistance, 1709
Solvent(s), 13, 335, 509
Solvent/water ratio, 477
Sorption, 857
Sorption gravimetric technique, 857
Spiral orientation, 1869
Stabilization, 219
Stabilizers, 657
Starch films, 787
Starch graft copolymers, 1665
Starch urea–formaldehyde matrix encapsulation, 1209
Statistical copolymers, 1127
Steady state shear flow, 1425
Steady-state permeation rates, 939
Stress relaxation, 1425
Stress-relaxation experiments, 887
Stress–strain measurement data, 1137
Supercritical fluid, 1493
Supercritical fluid extraction (SFE), 1607
Supermolecular morphology, 1321
Surface analysis, 1
Surface cross-linking, 57
Surface fluorination, 231
Surface modification, 1433
Surfaces, 1229
Suspension equations, 25
Suspension viscosities, 37
Suwa's equation, 741
Swellable controlled-release systems, 1209
Swelling, 343, 393, 1209, 1383, 2033

Tear strength, 809
TEGDMA, 1877
Tensile properties, 393
Tensile retraction measurements, 1621
Tensile strength, 1515
Tensile stress–strain data, 867
Tenter, 1399
TG–DTA analysis, 1539
Thermal analysis, 1023, 1539
Thermal atomic oxygen environment, 1341
Thermal decomposition, 1105, 1353
Thermal degradation, 1749, 1853
Thermal polymerization, 451
Thermal stability, 313, 1189, 1241, 1877
Thermogravimetric (TG) technique, 1475
Thermoplastic copolyurethanes, 2003
Thermoplastic modified epoxies, 1051
Thermoplastic polyurethanes, 2023
Thermoplastics, 845, 1677
Thermoset polymers, 1015
Thermosets, 905
Thermosetting polyimides, 257
Thermosetting polymers, 1859
Thermotropic liquid crystalline polymer injection moldings, 751
Thermotropic liquid crystalline polymers (TLCPs), 383, 730, 1677, 2147
Time–temperature–transformation cure diagram, 257
Total surface energy, 1579
Toughening, 1859
Toughness, 85, 611
Toxic metal-binding agents, 1565
Transesterification, 1151
Transition metal complexes, 225
Transmembrane electrical resistance, 2081
Transmembrane pressure gradients, 2081
Transport layer, 1897
Transport properties, 1935
Trapping diffusion, 319
Triblock copolymers, 1297

Ultrafiltration, 67, 2091
Ultrafiltration membrane, 67
Ultrasound, 505
Universal calibration assessment, 1531
Unsaturated polyester (UP) resins, 151
Unsaturated polyesters, 931
Urea–resorcinol–formaldehyde (URF) resins, water-resistant properties, 2135
UV irradiation, 1409
UV surface coatings, 1163

Velocity slip, 625
Vernonia oil, 953
Vernonia polyester network, 953
Vibration damping laminate, 1801
Vickers microhardness (*MH*) measurements, 1177
Vinyl chloride suspension polymerization, 435
Viscometry measurements, 215
Viscosity, 37, 215, 495, 1271
Viscosity measurements, 435
Viscosity method, 1953
Viscosity–concentration equation, 25
Viscotek differential viscosity detector, 1531
Visible absorption spectrum, 1557

Vital shell structures, 1765
Vogel–Tammann–Fulcher (VTF) equation, 405
Volatility, 219

Waste polymers, 443
Water penetration, 319
Water vapor permeability, 669
Water-alcohol separation, 199
Water-soluble copolymers, 1115
Water-soluble polymers, 921
Water-transport properties, 2197
Wet-spinning, 1945
Wide-angle X-ray diffraction (WAXD), 711, 2147
WLF analysis, 583
Wood–polymer composites (WPCs), 2225, 2241

X-ray photoelectron spectroscopy (XPS), 1331

Yellowness index, 113
Yield stress, 625
Young's modulus, 767

Ziegler–Natta (ZN) catalysts, 121, 2173
Zone winding, 1765

Journal of Applied Polymer Science

Author Index to Volume 48

Abbey, K. J. See Lin, J. C., 1549
Abe, Y. See Shimada, M., 1121
Adachi, K. See Otsuki, S., 1557
Aguilar-Vega, M.
—; Paul, D. R.; Vandenberg, E. J.; Mullis, J. C.: Gas Transport Properties of Poly(3-Hydroxyoxetane), 107
Aihara, A. See Otake, K., 355
Ait-Kadi, A. See Wang, Q., 121
Alberola, N.
—; Bergeret, A.; Battesti, P.; Revillon, A.: Molecular Mobility in Styrene-*co*-methacrylic Acid Random Copolymers from 100 to 450 K, 2041
Alföldi, J. See Šoltés, L., 1313
Ali, S. A. M.
—; Hourston, D. J.: Physical Studies of Ionically Terminated Polytetrahydrofuran Polymers. IV. Solid-State Studies, 1915
Alon, M. See Zilberman, E. N., 435
Aminabhavi, T. M.
—; Munnolli, R. S.; Stahl, W. M.; Gangal, S. V.: Sorption and Diffusion of Organic Esters into Fluoropolymer Membranes, 857
Angiolini, L.
—; Caretti, D.; Carlini, C.; Lelli, N.; Rolla, P. A.: Polymeric Photoinitiators Bearing Side-Chain Acyldiphenylphosphinoxide Moieties for UV Surface Coatings, 1163
Antipov, E. M. See Yampol'skii, Yu. P., 1935
Argon, A. S. See Spiegelberg, S. H., 85
Arroyo, M.
—; Tejera, M.; Ibarra, L.: Functionalization of Polyester PET Fibers, 1009
Arunachalam, V. See Devarajan, R., 921
Arvanitoyannis, I.
—; Kolokuris, I.; Blanshard, J. M. V.; Robinson, C.: Study of the Effect of Annealing, Draw Ratio, and Moisture upon the Crystallinity of Native and Commercial Gutta Percha (Transpolyisoprene) with DSC, DMTA, and X-Rays: Determination of the Activation Energies at T_g, 987
Asua, J. M. See Masa, J. A., 205
Athalye, A. R. See Shukla, S. R., 1877
Aubert, J. H. See Ozkul, M. H., 767

Bahary, W. S.
—; Jilani, M.: Universal Calibration Assessment in Aqueous Gel Permeation Chromatography, 1531
Bai, J.
—; Fouda, A. E.; Matsuura, T.; Hazlett, J. D.: A Study on the Preparation and Performance of Polydimethylsiloxane-Coated Polyetherimide Membranes in Pervaporation, 999
Bailey, W. J. See Luo, Y., 1781
Bajpai, A. See Bajpai, U. D. N., 1241
Bajpai, U. D. N.
—; Rai, S.; Bajpai, A.: Synthesis and Characterization of Metal-Containing Coordination Polymers of Poly(methylene diphenylene terephthalamide), 1241
Baker, W. E. See Xie, H., 1199
Bantjes, A. See Chen, G., 1189
Barrett, L. W.
—; Shaffer, O. L.; Sperling, L. H.: Semi-Interpenetrating Polymer Networks Composed of Poly(ethylene terephthalate) and Vernonia Oil, 953
—; Sperling, L. H.; Gilmer, J.; Mylonakis, S. G.: Crystallization Kinetics of Poly(ethylene terephthalate) in Compositions Containing Naturally Functionalized Triglyceride Oil, 1035
Barry, A. O. See Peng, W., 1757
Barsola, R. See Kaur, I., 575
Bartle, K. D. See Cotton, N. J., 1607
Baruah, S. D.: Effect of Fe(III) on the Polymerization of Butyl Methacrylate Initiated by a Charge-Transfer Mechanism, 225
Battesti, P. See Alberola, N., 2041
Beck, H. N.: Mixtures of Tetrabromobisphenol-A Polycarbonate and Bis(2-ethoxyethyl)ether: Examples of a Lower Critical Solution Temperature, 21
Beck, H. N.: Phase Behavior of

Mixtures of Tetrabromobisphenol-A Polycarbonate in Solvents and Nonsolvents, 13
Bell, J. P. See Liang, J.-L., 465, 477
Bello, A. See Lorenzo, V., 1177
Bellucci, F. See Kloppers, M. J., 2197
Benavente, R. See Lorenzo, V., 1177
Bergeret, A. See Alberola, N., 2041
Berghaus, U. See Michaeli, W., 871
Best, M.
—; Halley, J. W.; Johnson, B.; Vallés, J. L.: Water Penetration in Glassy Polymers: Experiment and Theory, 319
Bhattacharya, A. See Kole, S., 529
Bhowmick, A. K. See Kole, S., 529; See Konar, J., 1579
Bianchi, F. See Cao, N., 1831
Bianchi, R. See Di Fiore, C., 1997
Binko, J. See Fortelný, I., 1731
Birkinshaw, C.
—; Buggy, M.; Quigley, F.: The Effects of γ Irradiation on Toughening Mechanisms in Rubber-Modified Polymers, 181
Bjellheim, P.
—; Helgee, B.: Aromatic Polyimides: Synthesis, Characterization, and Evaluation of Electric Strength, 1587
Black, P. See Guiver, M. D., 1597
Blanshard, J. M. V. See Arvanitoyannis, I., 987
Bokias, G. See Staikos, G., 215
Bosnyak, C. P. See Pham, H. T., 1425
Brennan, J. E. See Kloppers, M. J., 2197
Breslin, V. T.
—; Li, B.: Weathering of Starch–Polyethylene Composite Films in the Marine Environment, 2063
Bromberg, L. See Levin, G., 335
Brooks, B. W. See Li, B., 1811
Broughton, R. M., Jr.
—; Hall, D. M.: Ionomer Studies of Polyethylene–Acrylic Acid Copolymer. I. Fiber Preparation and Properties, 1501
Buggy, M. See Birkinshaw, C., 181
Bürger, W.
—; Lunkwitz, K.; Pompe, G.; Petr, A.; Jehnichen, D.: Radiation Degradation of Fluoropolymers: Carboxylated Fluoropolymers from Radiation Degradation in Presence of Air, 1973
Burmeister, L. C. See Hardin, R. A., 625

Campanelli, J. R.
—; Kamal, M. R.; Cooper, D. G.: A Kinetic Study of the Hydrolytic Degradation of Polyethylene Terephthalate at High Temperatures, 443
Cao, N.
—; Pegoraro, M.; Bianchi, F.; Di Landro, L.; Zanderighi, L.: Gas Transport Properties of Polycarbonate–Polyurethane Membranes, 1831
Cao, S.-Q. See Liu, F.-T., 425
Caretti, D. See Angiolini, L., 1163
Carlini, C. See Angiolini, L., 1163
Carlson, G. M. See Lin, J. C., 1549
Carté, T. L.
—; Moet, A.: Morphological Origin of Super Toughness in Poly(ethylene Terephthalate)/ Polyethylene Blends, 611
Catalano, E. A. See Trask-Morrell, B. J., 1475
Černá, Z. See Fortelný, I., 1731
Chen, C.-J. See Huang, Y.-J., 151
Chen, G.
—; Fina, L. J.: Orientation Gradients at Polymer Surfaces. I. Description of Methods, 1229
—; Van der Does, L.; Bantjes, A.: Investigations on Vinylene Carbonate. VI. Immobilization of Alkaline Phosphatase onto Poly(vinylene carbonate)–Jeffamine® Hydrogel Beads, 1189
Chen, J. See Lin, X., 231
Chen, K. M. See Hwang, M. C., 299
Chen, K.-M.
—; Wang, T.-H.; King, J.-S.: Effect of Imidization Temperature on Properties of Polyimide Films, 291
Chen, W.-H. See Kuo, P.-L., 1953
Chen, X. See Tang, H., 1795
Chiang, W.-Y.
—; Huang, C.-C.: Separation of Liquid Mixtures by Using Polymer Membranes. IV. Water-Alcohol Separation by Pervaporation through Modified Acrylonitrile Grafted Polyvinyl Alcohol Copolymer (PVA-G-AN) Membranes, 199
Chien, J. C. W. See Vizzini, J. C., 2173
Childs, R. F. See Trushinski, B. J., 187
Choi, H. K. See Kim, I., 721
Choi, Y.-S.
—; Miyasaka, K.: Structure of Poly(vinyl alcohol)-Iodine Complex Formed in the Amorphous Phase of Poly(vinyl alcohol) Films, 313
Choudhary, V. See Krishnan, P. S. G., 1015
Christenson, C. P. See Pham, H. T., 1425
Chung, M. C. See Kim, I., 721
Clifford, A. A. See Cotton, N. J., 1607
Cohen, R. E. See Spiegelberg, S. H., 85
Cook, D. G.
—; Rudin, A.; Plumtree, A.: The

Use of Latex Rubber-Modified Polystyrene as a Model System for HIPS: Effect of Particle Size, 75
Cooper, D. G. See Campanelli, J. R., 443
Cotton, N. J.
—; Bartle, K. D.; Clifford, A. A.; Dowle, C. J.: Rate and Extent of Supercritical Fluid Extraction of Additives from Polypropylene: Diffusion, Solubility, and Matrix Effects, 1607
Crighton, J. S. See Tsukada, M., 113, 1409

Da Cunha, C.
—; Deffieux, A.; Fontanille, M.: Synthesis and Polymerization of Lignin-Based Macromonomers. III. Radical Copolymerization of Lignin-Based Macromonomers with Methyl Methacrylate, 819
Dando, N. R. See Parker, A. A., 1701
Dause, R. B. See Saltzman, W. M., 1493
Davé, V.
—; Glasser, W. G.: Cellulose-Based Fibers from Liquid Crystalline Solutions. III. Processing and Morphology of Cellulose and Cellulose Hexanoate Esters, 683
Davies, P. See Plummer, C. J. G., 730
De Rosa, C. See Di Fiore, C., 1997
De Ruvo, A. See Hagen, R., 603
De, S. K. See Mukhopadhyay, K., 1089
Deb, P. C. See Patri, M., 1709
Deffieux, A. See Da Cunha, C., 819
Demarmels, A. See Plummer, C. J. G., 730, 751
Derrough, S. N.
—; Rouf, C.; Widmaier, J.-M.; Meyer, G. C.: Investigations for Obtaining Semi-Interpenetrating Polymer Networks Based on Monomers of Different Reactivity Toward Radicals, 1183
Deslandes, Y. See Guiver, M. D., 1597
Dessouki, A. M.
—; Taher, N. H.; El-Arnaouty, M.; Khalil, F. H.: Radiation Grafting of Acrylic and Methacrylic Acids onto Poly(tetrafluoroethylene–hexafluoropropylene–vinylidene fluoride) TFB Films, 1249
Deutz, H. See Wortmann, F.-J., 137
Devarajan, R.
—; Arunachalam, V.; Jayakumar, E.; Selvi, P.: Water-Soluble Polymers. I. Synthesis of *N*-Succinimido (*N*) Thiocarbonyl Acrylamide and Its Polymerization: Grafting of This Monomer and Acrylamide onto Poly(vinyl alcohol), 921
Devi, G. R. See Raju, K. V. S. N., 2101
Di Dino, G. See Di Fiore, C., 1997
Di Fiore, C.
—; Leone, B.; De Rosa, C.; Guerra, G.; Petraccone, V.; Di Dino, G.; Bianchi, R.; Vosa, R.: Influence of the Antimony Catalyst Remnants on the Melt Crystallization of PET, 1997
Di Landro, L. See Cao, N., 1831
Dickinson, J. T. See Fuhrmann, J., 2123
Dickson, J. M. See Trushinski, B. J., 187
Dix, L. R.
—; Simpson, M. A.; Ly, L. N.: A Low-Temperature Thermosetting Bis-maleimide Resin (Note), 1873
Dodrill, A. M. See Saltzman, W. M., 1493
Domínguez, J. M.
—; Palacios, J.; Espinosa, G.; Schifter, I.: Surface Microstructure of MMA–HEMA Polymer Membranes, 1897
Doshak, J. M. See Hergenrother, W. L., 1621
Dowle, C. J. See Cotton, N. J., 1607

Ebhoaye, J. E. See Okieimen, F. E., 1853
Eckersley, S. T.
—; Plumtree, A.; Rudin, A.: High Speed Tensile Performance and Fractography of Acrylic Latex Films, 1689
—; Rudin, A.: The Effect of Plasticization and pH on Film Formation of Acrylic Latexes, 1369
Edmond, L. N. See Jackson, M. B., 1259
Eisenberg, A. See Rutkowska, M., 521
Ekman, K. B.
—; Näsman, J. H.; Sjöström, H.: Preparation of Ethylene Copolymers Containing Pendant Unsaturation for Radiation Crosslinking, 167
El-Arnaouty, M. See Dessouki, A. M., 1249
Enders, S. See Podešva, J., 1127
Equiazábal, J. I. See Martínez, J. M., 935
Espinosa, G. See Domínguez, J. M., 1897

Fang, T. See Guo, Q., 547
Fanta, G. F. See Trimnell, D., 1665
Fay, J. J. See Murphy, C. J., 1321
Feng, Z. See Guo, Q., 547
Feve, M. See Seris, A., 257
Fina, L. J. See Chen, G., 1229
Földes, E.: Transport of Small Molecules in Polyolefins. II. Diffusion and Solubility of Irganox 1076 in Ethylene Polymers, 1905
Fontanille, M. See Da Cunha, C., 819

Fortelný, I.
—; Černá, Z.; Binko, J.; Kovář, J.: Anomalous Dependence of the Size of Droplets of Disperse Phase on Intensity of Mixing, 1731
Fouda, A. E. See Bai, J., 999
Freddi, G.
—; Svilokos, A. B.; Ishikawa, H.; Tsukada, M.: Chemical Composition and Physical Properties of *Gonometa rufobrunnae* Silk, 99
Frings, W. See Michaeli, W., 871
Frontini, P. M.
—; Rink, M.; Pavan, A.: Development of Polyurethane Engineering Thermoplastics. I. Preparation and Structure, 2003
—; Rink, M.; Pavan, A.: Development of Polyurethane Engineering Thermoplastics. II. Structure and Properties, 2023
Fuhrmann, J.
—; Nick, L.; Dickinson, J. T.; Jensen, L. C.: Photon Emission during Deformation of Glass-Fiber-Reinforced Bisphenol-A–Polycarbonate, 2123
Fukuda, W. See Iijima, T., 1859
Fukutomi, T. See Ishikawa, S., 509
Funaki, Y.
—; Ueda, K.; Saka, S.; Soejima, S.: Characterization of Cellulose Acetate in Acetone Solution. Studies on Prehump II in GPC Pattern, 419

Gabriel, E. M.
—; Gillberg, G. E.: *In Situ* Modification of Microporous Membranes, 2081
Gallucci, R. R. See Hamilton, D. G., 2249
Gangal, S. V. See Aminabhavi, T. M., 857
Gao, J.: Kinetics of Epoxy Resins Formation from Bisphenol-A, Bisphenol-S, and Epichlorohydrin, 237
Garaud, J.-L. See Gineste, J.-L., 2113
Garbassi, F. See Morra, M., 1331
Gardette, J. L.
—; Gaumet, S.; Philippart, J. L.: Influence of the Experimental Conditions on the Photooxidation of Poly(vinyl chloride), 1885
Garton, A. See Yang, J., 359
Gaumet, S. See Gardette, J. L., 1885
Gedam, P. H. See Kishanprasad, V. S., 1151
Gillberg, G. E. See Gabriel, E. M., 2081
Gilmer, J. See Barrett, L. W., 1035
Gilmore, C. M.
—; Poehlein, G. W.; Schork, F. J.: Modeling Poly(Vinyl Alcohol)-Stabilized Vinyl Acetate Emulsion Polymerization. I. Theory, 1449
—; Poehlein, G. W.; Schork, F. J.: Modeling Poly(Vinyl Alcohol)-Stabilized Vinyl Acetate Emulsion Polymerization. II. Comparison With Experiment, 1461
Gineste, J.-L.
—; Garaud, J.-L.; Pourcelly, G.: Grafting of Acrylic Acid with Diethyleneglycol–Dimethacrylate onto Radioperoxided Polyethylene, 2113
Glasser, W. G. See Davé, V., 683
Gohil, R. M.
—; Morphology–Permeability Relationships in Biaxially Oriented Pet Films: A Relationship between Oxygen Permeability and PROF, 1649
—; Morphology–Property Relationships in Oriented Pet Films: A Role of In-Plane Crystalline Orientation Distribution on the Film Properties, 1635
Goosen, M. F. A. See Yao, K. D., 343
Gotoh, K. See Kojima, T., 1353
Gotoh, M.
—; Tamiya, E.; Karube, I.: Preparation and Performance of Poly(vinyl butyral) Membrane for Ultrafiltration, 67
Grulke, E. A. See Li, L.-X., 1081
Guerra, G. See Di Fiore, C., 1997
Guiver, M. D.
—; Black, P.; Tam, C. M.; Deslandes, Y.: Functionalized Polysulfone Membranes by Heterogeneous Lithiation, 1597
Guo, Q.
—; Sun, K.; Fang, T.; Qi, Y.; Feng, Z.: Miscibility and Phase Behavior in Blends of Poly(hydroxyether of bisphenol A) with Poly(ethylene oxide-*co*-propylene oxide), 547
Gupta, A. D. See Kumar, D., 451

Ha, W. S. See Seo, S. W., 833
Haga, T. See Mori, R., 1223
Hagen, R.
—; Salmén, L.; De Ruvo, A.: Dynamic Mechanical Studies of a Highly Filled Composite Structure: A Lightweight Coated Paper, 603
Hall, D. M. See Broughton, R. M., Jr., 1501
Halley, J. W. See Best, M., 319
Hamilton, D. G.
—; R. R. Gallucci: The Effects of Molecular Weight on

Polycarbonate–Polybutylene Terephthalate Blends (Note), 2249
Hardin, R. A.
—; Burmeister, L. C.: Viscosity, Yield Stress, Slip, and Natural Convection of HSPAN Gel–Water Dispersions, 625
Hayashi, K. See Ogata, N., 383
—; Morioka, T.; Toki, S.: Microdeformation Mechanisms in Propylene–Ethylene Block Copolymer, 411
Hazlett, J. D. See Bai, J., 999
He, Y. Y. See Yao, K. D., 343
Hedrick, D. P. See Parker, A. A., 677
Heino, M. T.
—; Seppälä, J. V.: Studies on Compatibilization of Blends of Polypropylene and a Thermotropic Liquid Crystalline Polymer, 1677
Helgee, B. See Bjellheim, P., 1587
Hergenrother, W. L.
—; Doshak, J. M.: Tensile Retraction Measurements. V. The Effect of Carbon Black on the Cross-Link Density of Cured Rubber, 1621
Hloušková, Z.
—; Lustoň, J.; Szöcs, F.: A Study of the Interaction of Mechanically Generated Polypropylene Radicals with Phenolic Antioxidant in the Presence of Oxygen by EPR Spectroscopy, 1843
Höcker, H. See Michaeli, W., 871
Hodgkin, J. H. See Min, B.-G., 1303
Hoebergen, A.
—; Uyama, Y.; Okada, T.; Ikada, Y.: Graft Polymerization of Fluorinated Monomer onto Corona-treated PVA and Cellulose Films, 1825
Hong, L.
—; Ruckenstein, E.: Fumed Silica as Stabilizer of Precursor Emulsions Used to Prepare Polymer Latexes, 1773
Hourston, D. J. See Ali, S. A. M., 1915
Hsu, T.-C. J. See Liao, F.-S., 1801
Hu, C. See Xiu, Y., 867
Hua, X.
—; Kaliaguine, S.; Kokta, B. V.: Application of SIMS in Polymers and Lignocellulosic Materials, 1
Huang, C.-C. See Chiang, W.-Y., 199
Huang, M. W.
—; Zhu, K. J.; Pearce, E. M.; Kwei, T. K.: The Modification of Nylon 6 by a Phenol-Formaldehyde Resin, 563
Huang, Y.-J.
—; Chen, C.-J.: Curing of Unsaturated Polyester Resins—Effects of Comonomer Composition. III. Medium-Temperature Reactions, 151
Hudson, S. M. See Parandoosh, S., 787
Hung, M.-N. See Kuo, P.-L., 1571
Hwang, M. C.
—; Chen, K. M.: The Removal of Color from Effluents Using Polyamide–Epichlorohydrin–Cellulose Polymer. I. Preparation and Use in Direct Dye Removal, 299

Ibarra, L.
—; Jordá, C.: Effect of a Diazide as Adhesive Agent in Elastomeric Matrix–Short Polyamide Fibers Composite, 375
Ibarra, L. See Arroyo, M., 1009
Iijima, T.
—; Sato, K.; Fukuda, W.; Tomoi, M.: Toughening of Epoxy Resins by *N*-Phenylmaleimide–*N*-Cyclohexylmaleimide–Styrene Terpolymers, 1859
Ikada, Y. See Hoebergen, A., 1825
Illinger, J. L. See Schneider, N. S., 1723
Imai, K.
—; Shiomi, T.; Tezuka, Y.; Itamochi, H.; Miya, M.: Separability of SO_2 from SO_2/N_2 Mixture through Sulfoxide-Modified Poly(Vinyl Alcohol) and Cellulose Membranes, 1525
Imai, M. See Inagaki, N., 1963
Inagaki, N.
—; Tasaka, S.; Imai, M.: Hydrophilic Surface Modification of Polypropylene Films by CCl_4 Plasma, 1963
—; Tasaka, S.; Ishii, K.: Surface Modification of Polyethylene and Magnetite Powders by Combination of Fluidization and Plasma Polymerization, 1433
Iroh, J. O. See Liang, J.-L., 465
Ishii, K. See Inagaki, N., 1433
Ishikawa, H. See Freddi, G., 99
Ishikawa, S.
—; Sasaki, S.; Fukutomi, T.: Microphase Separation and Crystallization of Crystalline-Amorphous Type Block Copolymer. I. Effect of Solvent, 509
Itamochi, H. See Imai, K., 1525
Iyer, P. B. See Sreenivasan, S., 393
Izuka, T. See Shimada, M., 1121

Jackson, M. B.
—; Edmond, L. N.; Varley, R. J.; Warden, P. G.: Toughening Epoxy Resins with Polyepichlorohydrin, 1259
Jager, J.
—; Krins, B.; Sikkema, D. J.: A New Amorphous Heat-Resistant Aromatic Polyamide Fiber Prepared by Wet-Spinning, 1945

Jain, S. R.
—; Sekkar, V.; Krishnamurthy, V. N.: Mechanical and Swelling Properties of HTPB-Based Copolyurethane Networks, 1515
Jang, B. Z. See Whitaker, A. F., 1341
Jastrzebska, M. See Rutkowska, M., 521
Jayakumar, E. See Devarajan, R., 921
Jehnichen, D. See Bürger, W., 1973
Jensen, L. C. See Fuhrmann, J., 2123
Jeřábek, K.: Comments to the Paper "The Determination of the Pore Structural Parameters of Isoporous Resins by Inverse GPC," by Anyou Wang, Juntan Yan, and Rognan Xu (Note), 745
Jethmalani, J. See Viswanathan, T., 1289
Jilani, M. See Bahary, W. S., 1531
Johari, G. P. See Wasserman, S., 905
Johnson, B. See Best, M., 319
Jordá, C. See Ibarra, L., 375
Joseph, H. M. See Zilberman, E. N., 435
Joseph, V. C. See Manjari, R., 271, 279

Kaito, A.
—; Kyotani, M.; Nakayama, K.: Orientation Distribution and Layerlike Morphology in Extrusion-Molded Sheets of a Liquid Crystalline Copolyester Amide, 2147
Kaler, E. W. See Rodriguez-Guadarrama, L. A., 775
Kaliaguine, S. See Hua, X., 1; See Wang, Q., 121
Kamal, M. R. See Campanelli, J. R., 443
Karasz, F. E. See Litauszki, L., 1023; See Schneider, N. S., 1723
Karube, I. See Gotoh, M., 67
Kasai, N. See Tsukada, M., 113
Kaur, I.
—; Misra, B. N.; Barsola, R.: Graft Copolymerization of 4-Vinyl Pyridine onto Isotactic Polypropylene Hydroperoxide by Mutual Irradiation Method, 575
Kaur, J. See Kumar, D., 451
Kausch, H.-H. See Plummer, C. J. G., 730, 751
Kawata, T. See Ogata, M., 583
Kelnar, I.
—; Schätz, M.: Silane Crosslinking of PVC. I. Grafting of Mercaptoalkylalkoxysilanes onto PVC: Properties of the Grafted and Cross-linked Product, 657
—; Schätz, M.: Silane Crosslinking of PVC. II. Influence of Silane Type and Conditions on Cross-linking by Water, 669
Kestelman, V. N. See Pichugin, V. S., 1765
Khalil, F. H. See Dessouki, A. M., 1249
Khodjaeva, V. L. See Yampol'skii, Yu. P., 1935
Kim, B. K. See Kim, K. J., 981, 1271; See Shin, G. S., 945
Kim, I.
—; Kim, J. H.; Choi, H. K.; Chung, M. C.; Woo, S. I.: Comonomer Enhancement Effect of 1-Hexene in Ethylene Copolymerization Catalyzed over $MgCl_2$/THF/$TiCl_4$ Catalysts, 721
Kim, J. H. See Kim, I., 721
Kim, J.-S. See Rutkowska, M., 521
Kim, K. J.
—; Kim, B. K.: Crosslinking of HDPE During Reactive Extrusion: Rheology, Thermal, and Mechanical Properties, 981
—; Kim, M. S.; Kim, B. K.: Viscosity Effect in Polyolefin Ternary Blends and Composites, 1271
Kim, M. S. See Kim, K. J., 1271
King, J.-S. See Chen, K.-M., 291
Kinjo, N. See Ogata, M., 583
Kishanprasad, V. S.
—; Gedam, P. H.: Synthesis and Characterization of Polyester–Imides from Imidodicarboxylic Acid Monomers and Ethylene Glycol, 1151
Kloppers, M. J.
—; Bellucci, F.; Latanision, R. M.; Brennan, J. E.: Transport and Dielectric Properties of Poly(ethylene terephthalate) as Determined via Electrochemical Techniques, 2197
Klüppel, M.: Characterization of Nonideal Networks by Stress–Strain Measurements at Large Extensions, 1137
Kojima, T.
—; Takaku, H.; Urata, Y.; Gotoh, K.: Pyrolysis GC/MS Studies on Plasma-Polymerized Pyrrole, 1353
Kokta, B. V. See Hua, X., 1; See Sain, M. M., 2181
Kole, S.
—; Bhattacharya, A.; Tripathy, D. K.; Bhowmick, A. K.: Influence of Curative, Filler, Compatibilizer, Domain Size, and Blend Ratio on the Dynamic Mechanical Properties of Silicone–EPDM Blends, 529
Kolokuris, I. See Arvanitoyannis, I., 987
Konar, J.
—; Sen, A. K.; Bhowmick, A. K.: Characterization of Grafted Polyethylene by Contact-Angle Hysteresis and ESCA Studies, 1579
Kondou, Y. See Ogata, N., 383
Kondyurin, A. V.: Interrupted Plasma Treatment of EPDM-40 Rubber, 1417
Koros, W. J. See Pfromm,

P. H., 2161
Kottes Andrews, B. A. See Trask-Morrell, B. J., 1475
Kovář, J. See Fortelný, I., 1731
Krins, B. See Jager, J., 1945
Krishna, D. See Raju, K. V. S. N., 2101
Krishnamurthy, V. N. See Jain, S. R., 1515
Krishnan, P. S. G.
—; Choudhary, V.; Varma, I. K.: Effect of MMA on the Physical Properties of Urethane–Methacrylate, 1015
Kubota, H.: Photografting of Acrylonitrile and Methacrylic Acid on Polyethylene Film under Air Atmosphere, 1717
Kumar, D.
—; Kaur, J.; Gupta, A. D.: Heat-Resistant Thermosetting Polyimide Matrix Resins Containing Keto, Ether, Hexafluoroisopropylidene Linkages and Maleimido- and Nadimido- End Capped Groups, 451
Kumzawa, H. See Sada, E., 939
Kuo, P.-L.
—; Hung, M.-N.: Functional Polymers for Colloidal Applications. IV. Aggregate Formation of Lipophile-Grafted Water-Soluble Copolymers in Aqueous Solutions, 1571
—; Wey, B.-S.; Chen, W.-H.: Functional Polymers for Colloidal Application. IX. The Dispersing Ability of Anionic and Zwitterionic Aniline–Formaldehyde Condensates to Dyes, 1953
Kuo, W. F.
—; Tong, S. N.; Pearce, E. M.; Kwei, T. K.: ABA Triblock Copolymers with Two Crystallizable Blocks, 1297
Kurnoskin, A. V.: Structure of the Epoxy–Chelate Metal-Containing Matrices: Theoretical Aspects, 639
Kuzmin, 8 N. N. See Yampol'skii, Yu. P., 1935
Kwei, T. K. See Huang, M. W., 563; See Kuo, W. F., 1297
Kyotani, M. See Kaito, A., 2147

Lakenan, J. E. See Pitt, W. G., 845
Lasko, C. L.
—; Pesic, B. M.; Oliver, D. J.: Enhancement of the Metal-binding Properties of Chitosan through Synthetic Addition of Sulfur- and Nitrogen-Containing Compounds, 1565
Latanision, R. M. See Kloppers, M. J., 2197
Lee, Y. W.
—; Li, J. X.: Change of Morphology in High Molecular Weight Polyethylene during Die Drawing, 2213
Lefebvre, J. M. See Porzucek, K., 969
Lelli, N. See Angiolini, L., 1163
Leone, B. See Di Fiore, C., 1997
Lerner, F. See Zilberman, E. N., 435
Levin, G.
—; Bromberg, L.: Gelled Membrane Composed of Dioctyldithiocarbamate Substituted on Poly(Vinylchloride) and Di(2-Ethylhexyl)Dithiophosphoric Acid, 335
Li, B. See Breslin, V. T., 2063
—; Brooks, B. W.: Modeling and Simulation of Semibatch Emulsion Polymerization, 1811
Li, J. See Xiu, Y., 867
Li, J. X. See Lee, Y. W., 2213
Li, L.-X.
—; Grulke, E. A.; Oriel, P. J.: Synthesis and Microbial Degradation of Poly(2-methyl phenylene oxide), 1081
Li, S. See Tang, H., 1795
Liang, J. Z. See Ness, J. N., 557
Liang, J.-L.
—; Bell, J. P.; Iroh, J. O.; Mehta, A.: Preparation and Characterization of Electropolymerized Poly(*N*-Substituted Maleimide-*co*-Styrene) Coatings on Copper Substrates, 465
—; Bell, J. P.; Scola, D. A.: Preparation and Characterization of Electropolymerized Poly(*N*-Substituted Methacrylamide) Matrices on Graphite Fibers, 477
Liao, F.-S.
—; Hsu, T.-C. J.; Su, A. C.: Enhanced Laminate Damping via Modification of Viscoelastic Interlayer, 1801
Lin, J. C.
—; Carlson, G. M.; Abbey, K. J.; Trumbo, D. L.: Synthesis of Polyester Pigment Binders Containing Dimethyl 2,2-Dimethyl-4-methylene Glutarate, 1549
Lin, X.
—; Xiao, J.; Yu, Y.; Chen, J.; Zheng, G.; Xu, J.: Gas Permeabilities of Poly(trimethylsilylpropyne) Membranes Surface Modified with CF_4 Piasma, 231
Litauszki, L.
—; Karasz, F. E.: New Poly(bisbenzoylamine imide) Series: Synthesis and Characterization, 1023
Liu, F.-T.
—; Cao, S.-Q.; Yu, X.-D.: Preparation and Characterization of Polystyrene Terminated with an Organic Sulfide Group and Styrene–Vinyl Acetate Block Copolymer, 425
Liu, X. See Yao, Y., 57
Lokhande, H. T.
—; Varadarajan, P. V.; Nachane, N. D.: Gamma-Radiation

Induced Grafting of Acrylonitrile onto Guar Gum: Influence of Reaction Conditions on the Properties of the Grafted and Saponified Products, 495
López de Arbina, L. See Masa, J. A., 205
Lorenzo, V.
—; Benavente, R.; Pérez, E.; Bello, A.; Pereña, J. M.: Microhardness as a Thermally Activated Process: Indentation Time Dependence for an Amorphous Copolyester, 1177
Lunkwitz, K. See Bürger, W., 1973
Luo, Y. See Tang, H., 1795
—; Bailey, W. J.: Polymerization of 3,9-Dimethyl-1,5,7,11-tetraoxaspiro[5,5]undecane with Dithiols, 1781
Lustoň, J. See Hloušková, Z., 1843
—; Pastušáková, V.; Vašš, F.: Volatility of Additives from Polymers. Concentration Dependence and Crystallinity Effects, 219
Ly, L. N. See Dix, L. R., 1873

Ma, D. Z. See Tan, Q., 747
Maekawa, A. See Uehara, K., 2207
Makiyama, N. See Shimada, M., 1121
Manjari, R.
—; Joseph, V. C.; Pandureng, L. P.; Sriram, T.: Structure–Property Relationship of HTPB-Based Propellants. I. Effect of Hydroxyl Value of HTPB Resin, 271
—; Somasundaran, U. I.; Joseph, V. C.; Sriram, T.: Structure–Property Relationship of HTPB-Based Propellants. II. Formulation Tailoring for Better Mechanical Properties, 279
Marcinko, J. J. See Parker, A. A., 677
Mark, J. E. See Ozkul, M. H., 767
Martin, G. C. See Tackie, M., 793
Martínez, J. M.
—; Equiazábal, J. I.; Nazábal, J.: Miscibility of Poly(ether imide) and Poly(ethylene terephthalate) (Note), 935
Masa, J. A.
—; López de Arbina, L.; Asua, J. M.: A Comparison between Miniemulsion and Conventional Emulsion Terpolymerization of Styrene, 2-Ethylhexyl Acrylate and Methacrylic Acid, 205
Mathias, L. J. See Wright, J. R., 2225, 2241
Matsuda, H. See Takechi, S., 1105
Matsuura, T. See Bai, J., 999
McCarry, B. E. See Trushinski, B. J., 187
McCormick, C. L.
—; Salazar, L. C.: Water-Soluble Copolymers. XLV. Ampholytic Terpolymers of Acrylamide with Sodium 3-Acrylamido-3-Methylbutanoate and 2-Acrylamido-2-Methylpropanetrimethylammonium Chloride, 1115
McHugh, M. A. See Saltzman, W. M., 1493
Mechin, F. See Seris, A., 257
Mehta, A. See Liang, J.-L., 465
Mendizabal, E. See Rodriguez-Guadarrama, L. A., 775
Meyer, G. C. See Derrough, S. N., 1183
Michaeli, W.
—; Höcker, H.; Berghaus, U.; Frings, W.: Reactive Extrusion of Styrene Polymers, 871
Mikroyannidis, J. A.: Polyamides Containing Olefinic Bonds, 1749
Min, B.-G.
—; Hodgkin, J. H.; Stachurski, Z. H.: The Dependence of Fracture Properties on Cure Temperature in a DGEBA/DDS Epoxy System, 1303
Min, J. M. See Yao, K. D., 343
Misra, B. N. See Kaur, I., 575
Miya, M. See Imai, K., 1525
Miyasaka, K. See Choi, Y.-S., 313; See Nagaya, J., 1441
Moet, A. See Carté, T. L., 611
Moharir, A. V.
—; Vijayraghavan, K. M.: True Spiral Angle in Cotton of *Gossypium arboreum* (Note), 1869
Mori, R.
—; Haga, T.; Takagishi, T.: Relationship between Cellulase Treatment and the Dyeability with a Direct Dye for Various Kinds of Cellulosic Fibers, 1223
Morioka, T. See Hayashi, K., 411
Morra, M.
—; Occhiello, E.; Garbassi, F.: The Effect of Plasma-Deposited Siloxane Coatings on the Barrier Properties of HDPE, 1331
Mukhopadhyay, K.
—; Tripathy, D. K.; De, S. K.: Dynamic Mechanical Properties of Silica-Filled Ethylene Vinyl Acetate Rubber, 1089
Müller, B. See Pyckhout-Hintzen, W., 887
Mullis, J. C. See Aguilar-Vega, M., 107
Munnolli, R. S. See Aminabhavi, T. M., 857
Murphy, C. J.
—; Fay, J. J.; Vail, E. A. M.; Sperling, L. H.: The Influence of the Equilibrium Melting Temperature on the Supermolecular

Morphology of Several Polymers, 1321
Mylonakis, S. G. See Barrett, L. W., 1035

Nachane, N. D. See Lokhande, H. T., 495
Nagaya, J.
—; Tanioka, A.; Miyasaka, K.: Preparation and Characterization of Membranes with Positively Charged Main Chain from Polyethylenimine, 1441
Nakamura, Y. See Shimada, M., 1121
Nakashima, N. See Sudo, K., 1485
Nakayama, K. See Kaito, A., 2147
Näsman, J. H. See Ekman, K. B., 167
Nazábal, J. See Martínez, J. M., 935
Ness, J. N.
—; Liang, J. Z.: A Study of Rheological Properties and Crystallization Behavior for HDPE Melts During Extrusion, 557
Nick, L. See Fuhrmann, J., 2123
Nisizawa, M.: Radiation-Induced Sol–Gel Transition of Protein: Effects of Radiation on Diffraction Property, 371
Noguchi, H.
—; Yanase, N.; Uchida, Y.; Suzuta, T.: Preparation and Characterization by Thermal Analysis of Magnetic Latex Particles, 1539
Nonomura, C. See Yamada, T., 1399

Occhiello, E. See Morra, M., 1331
Ogata, M.
—; Kinjo, N.; Kawata, T.: Effects of Crosslinking on Physical Properties of Phenol–Formaldehyde Novolac Cured Epoxy Resins, 583
Ogata, N.
—; Tanaka, T.; Ogihara, T.; Yoshida, K.; Kondou, Y.; Hayashi, K.; Yoshida, N.: Effects of the Addition of a Liquid Crystalline Copolyester to Polystyrenes on Blending Torque and Mechanical Properties of Blends, 383
Ogawa, T.
—; Okazaki, N.: Mechanical Properties of Honeycomb Prepared from Aromatic Polyimide Film, 1739
Ogihara, T. See Ogata, N., 383
Okada, T. See Hoebergen, A., 1825
Okazaki, N. See Ogawa, T., 1739
Okieimen, F. E.
—; Ebhoaye, J. E.: Studies in the Thermal Degradation of Poly(vinyl chloride), 1853
Oliphant, K. See Xie, H., 1199
Oliver, D. J. See Lasko, C. L., 1565
Opalka, S. M. See Parker, A. A., 1701
Oriel, P. J. See Li, L.-X., 1081
Otake, K.
—; Yasuda, T.; Aihara, A.; Yokoyama, C.; Takahashi, S.: Molecular Weight Estimation by Pressure During Polymerization, 355
Otsuki, S.
—; Adachi, K.: Humidity Dependence of Visible Absorption Spectrum of Gelatin Films Containing Cobalt Chloride, 1557
Ozkul, M. H.
—; Mark, J. E.; Aubert, J. H.: The Elastic and Plastic Mechanical Responses of Microcellular Foams, 767

Paauw, M.
—; Pizzi, A.: Completion of Unsaturated Polyesters Analysis by FTIR (Note), 931
Palacios, J. See Domínguez, J. M., 1897
Pandureng, L. P. See Manjari, R., 271
Parandoosh, S.
—; Hudson, S. M.: The Acetylation and Enzymatic Degradation of Starch Films, 787
Parker, A. A.
—; Marcinko, J. J.; Rinaldi, P.; Hedrick, D. P.; Ritchey, W. M.: A Relationship between NMR Cross-Polarization Rates and Dynamic Storage Modulae of Polymers, 677
—; Opalka, S. M.; Dando, N. R.; Weaver, D. G.; Price, P. L.: Studies of Polymer Mobility in Composite Blends of Poly(vinyl butyral) and Alumina, 1701
Pascault, J. P. See Seris, A., 257
Pastušáková, V. See Lustoň, J., 219
Patel, G. S. See Sreenivasan, S., 393
Patri, M.
—; Samui, A. B.; Deb, P. C.: Studies on Sequential Interpenetrating Network (IPN) Based on Nitrile Rubber and Poly(vinyl acetate), 1709
Paul, D. R. See Aguilar-Vega, M., 107
Pavan, A. See Frontini, P. M., 2003, 2023
Pearce, E. M. See Huang, M. W., 563; See Kuo, W. F., 1297
Pearson, R. A.
—; Yee, A. F.: The Preparation and Morphology of PPO–Epoxy Blends, 1051
Pegoraro, M. See Cao, N., 1831
Peng, T. See Yao, K. D., 343
Peng, W.
—; Riedl, B.; Barry, A. O.: Study

on the Kinetics of Lignin Methylolation, 1757
Pereña, J. M. See Lorenzo, V., 1177
Pérez, E. See Lorenzo, V., 1177
Pesic, B. M. See Lasko, C. L., 1565
Petr, A. See Bürger, W., 1973
Petraccone, V. See Di Fiore, C., 1997
Pfromm, P. H.
—; Pinnau, I.; Koros, W. J.: Gas Transport through Integral-Asymmetric Membranes: A Comparison to Isotropic Film Transport Properties, 2161
Pham, H. T.
—; Bosnyak, C. P.; Wilchester, J. W.; Christenson, C. P.: Determination of the Elastic Component for Polymeric Melt under Steady Shear Flow, 1425
Philippart, J. L. See Gardette, J. L., 1885
Piao, J. See Tang, H., 1795
Pichugin, V. S.
—; Kestelman, V. N.: Procedure for Zone Winding of Extended-Length Netted Composite Shells, 1765
Pinnau, I. See Pfromm, P. H., 2161
Pitt, W. G.
—; Lakenan, J. E.; Strong, A. B.: The Influence of Plasma Gas Species on the Adhesion of Thermoplastic to Organic Fibers, 845
Pizzi, A. See Paauw, M., 931; See Scopelitis, E., 2135
Platé, N. A. See Yampol'skii, Yu. P., 1935
Plummer, C. J. G.
—; Wu, Y.; Davies, P.; Zülle, B.; Demarmels, A.; Kausch, H.-H.: The Short- and Long-Term Mechanical Properties of Filled and Unfilled Thermotropic Liquid Crystalline Polymer Injection Moldings, 730
—; Zülle, B.; Demarmels, A.; Kausch, H.-H.: The Structure of Filled and Unfilled Thermotropic Liquid Crystalline Polymer Injection Moldings, 751
Plumtree, A. See Cook, D. G., 75; See Eckersley, S. T., 1689
Podešva, J.
—; Stejskal, J.; Procházka, O.; Špaček, P.; Enders, S.: Fractionation of a Statistical Copolymer in a Demixing-Solvent System: Theory and Experiment, 1127
Poehlein, G. W. See Gilmore, C. M., 1449, 1461
Pompe, G. See Bürger, W., 1973
Porzucek, K.
—; Lefebvre, J. M.: Low Temperature Slow Rate Penetration Test: Evidence for Its Sensitivity to the Thermomechanical Relaxations in the Case of Ethylene–Vinyl Acetate Copolymers, 969
Pourcelly, G. See Gineste, J.-L., 2113
Pratt, J. A. See Saltzman, W. M., 1493
Price, P. L. See Parker, A. A., 1701
Procházka, O. See Podešva, J., 1127
Puig, J. E. See Rodriguez-Guadarrama, L. A., 775
Pyckhout-Hintzen, W.
—; Müller, B.; Springer, T.: Elastic Properties of Random-Linked *cis*-PB Networks: A Characterization and Gel Point Study, 887

Qi, Y. See Guo, Q., 547
Qu, B. J.
—; Rånby, B.: Photocross-linking of Low-Density Polyethylene. I. Kinetics and Reaction Parameters, 701
—; Rånby, B.: Photocross-linking of Low-Density Polyethylene. II. Structure and Morphology, 711
Quigley, F. See Birkinshaw, C., 181

Radhakrishnan, G. See Rajan, H., 2095
Rai, S. See Bajpai, U. D. N., 1241
Rajagopalan, N. See Shukla, P. G., 1209
Rajalingam, P. See Rajan, H., 2095
Rajan, H.
—; Rajalingam, P.; Radhakrishnan, G.: Synthesis and Properties of Segmented Polyurethane Using Phenolphthalein as Chain Extenders, 2095
Raju, K. V. S. N.
—; Krishna, D.; Devi, G. R.; Reddy, P. J.; Yaseen, M.: Assessment of Applicability of Carreau, Ellis, and Cross Models to the Viscosity Data of Resin Solutions, 2101
Rånby, B. See Qu, B. J., 701, 711
Reddy, P. J. See Raju, K. V. S. N., 2101
Revillon, A. See Alberola, N., 2041
Riedl, B. See Peng, W., 1757
Rinaldi, P. See Parker, A. A., 677
Rink, M. See Frontini, P. M., 2003, 2023
Ritchey, W. M. See Parker, A. A., 677
Robinson, C. See Arvanitoyannis, I., 987
Rodgers, P. A.: Pressure–Volume–Temperature Relationships for Polymeric Liquids: A Review of Equations of State and Their Characteristic Parameters for 56 Polymers, 1061
Rodriguez-Guadarrama, L. A.
—; Mendizabal, E.; Puig, J. E.; Kaler, E. W.:

Polymerization of Methyl Methacrylate in 3-Component Cationic Microemulsion, 775
Rolla, P. A. See Angiolini, L., 1163
Rouf, C. See Derrough, S. N., 1183
Ruckenstein, E. See Hong, L., 1773; See Sun, F., 1279
Rudin, A. See Cook, D. G., 75; See Eckersley, S. T., 1369, 1689
Rutkowska, M.
—; Jastrzebska, M.; Kim, J.-S.; Eisenberg, A.: Dynamic Mechanical Properties of Polyurethane Grafted onto Styrene–Styrene Sulfonic Acid Copolymers, 521
52Rykov, S. V. See Yampol'skii, Yu. P., 1935

Sada, E.
—; Kumzawa, H.; Wang, J.-S.: Concentration Dependence of Diffusivities of Penetrants in Glassy Polymer Membranes, 939
Şahan, M. See Şolpan, D., 2091
Sain, M. M.
—; Kokta, B. V.: Toughened Thermoplastic Composite. I. Cross-Linkable Phenol Formaldehyde and Epoxy Resins-Coated Cellulosic-Filled Polypropylene Composites, 2181
Saka, S. See Funaki, Y., 419
Salazar, L. C. See McCormick, C. L., 1115
Salmén, L. See Hagen, R., 603
Saltzman, W. M.
—; Sheppard, N. F., Jr.; McHugh, M. A.; Dause, R. B.; Pratt, J. A.; Dodrill, A. M.: Controlled Antibody Release from a Matrix of Poly(Ethylene-*co*-Vinyl Acetrate) Fractionated with a Supercritical Fluid, 1493
Samui, A. B. See Patri, M., 1709
Šandula, J. See Šoltés, L., 1313
Sasaki, S. See Ishikawa, S., 509
Sato, K. See Iijima, T., 1859
Schätz, M. See Kelnar, I., 657, 669
Schifter, I. See Domínguez, J. M., 1897
Schneider, N. S.
—; Illinger, J. L.; Karasz, F. E.: Effect of Water on the Glass Transition Temperature of Hydrophilic Polyurethanes, 1723
Schork, F. J. See Gilmore, C. M., 1449, 1461
Scobbo, J. J., Jr.: Effect of Melt-State Curing on the Viscoelastic Properties of Poly(phenylene sulfide), 2055
Scola, D. A. See Liang, J.-L., 477
Scopelitis, E.
—; Pizzi, A.: Urea–Resorcinol–Formaldehyde Adhesives of Low Resorcinol Content, 2135
Seay, M. See Xie, H., 1199
Sekkar, V. See Jain, S. R., 1515
Selvi, P. See Devarajan, R., 921
Sen, A. K. See Konar, J., 1579
Seo, S. W.
—; Ha, W. S.: Synthesis and Characterization of Poly(ether urethane)–Nylon 6 Block Copolymer, 833
Seppälä, J. V. See Heino, M. T., 1677
Seris, A.
—; Feve, M.; Mechin, F.; Pascault, J. P.: Thermally and Anionically Initiated Cure of Bismaleimide Monomers, 257
Shaffer, O. L. See Barrett, L. W., 953
Shantorovich, V. P. See Yampol'skii, Yu. P., 1935
Sheppard, N. F., Jr. See Saltzman, W. M., 1493
Shi, J.-F. See Vizzini, J. C., 2173
Shimada, M.
—; Takigami, S.; Nakamura, Y.; Abe, Y.; Izuka, T.; Makiyama, N.: Efficiently Activated Carbon Fiber Derived from Grafted Novoloid Fiber, 1121
Shimizu, K. See Sudo, K., 1485
Shin, G. S.
—; Kim, B. K.: Melt Blends of SAN with SAN-*graft*-Polybutadiene (PB), 945
Shiomi, T. See Imai, K., 1525
Shiozaki, H. See Tsukada, M., 113, 1409
Shishatskii, S. M. See Yampol'skii, Yu. P., 1935
Shogren, R. L. See Trimnell, D., 1665
Shukla, P. G.
—; Rajagopalan, N.; Sivaram, S.: Starch Urea–Formaldehyde Matrix Encapsulation. IV. Influence of Solubility and Physical State of Encapsulant on Rate and Mechanism of Release, 1209
Shukla, S. R.
—; Athalye, A. R.: Mechanical and Thermal Behavior of Cotton Cellulose Graft-Copolymerized Using Hydroxyethyl Methacrylate in Presence of Triethylene Glycol Dimethacrylate, 1877
Sideridis, E.: The Transverse Elastic Modulus of Fiber-Reinforced Composites as Defined by the Concept of Interphase, 243
Sikkema, D. J. See Jager, J., 1945
Simpson, M. A. See Dix, L. R., 1873
Sivaram, S. See Shukla, P. G., 1209
Sjöström, H. See Ekman, K. B., 167
Šmigol, V.
—; Švec, F.: Preparation and Properties of Uniform Beads Based on Macroporous Glycidyl Methacrylate–Ethylene Dimethacrylate Copolymer: Use of Chain Transfer Agent for Control of the Pore-Size Distribution, 2033
Soejima, S. See Funaki, Y., 419

Şolpan, D.
—; Şahan, M.: Concentration and Separation of Metallic Ions from Aqueous Solutions by Using EC-PEG 4000 Alloy Membranes, 2091
Šoltés, L.
—; Alföldi, J.; Šandula, J.: HPLC and ^{13}C-NMR Study of Carboxymethyl-β-(1 → 6)-D-gluco-β(1 → 3)-D-Glucan Derived from *Saccharomyces cerevisiae*, 1313
Somasundaran, U. I. See Manjari, R., 279
Špaček, P. See Podešva, J., 1127
Sperling, L. H. See Barrett, L. W., 953, 1035; See Murphy, C. J., 1321
Spiegelberg, S. H.
—; Argon, A. S.; Cohen, R. E.: Measurements of Craze Velocities in Polystyrene–Polybutadiene Blends, 85
Springer, T. See Pyckhout-Hintzen, W., 887
Sreenivasan, S.
—; Iyer, P. B.; Patel, G. S.: Studies on the Swelling of Cotton Fibers in Alkali Metal Hydroxides. III. Structure–Property Relations in Fibers Swollen at 0°C, 393
Sriram, T. See Manjari, R., 271, 279
Stachurski, Z. H. See Min, B.-G., 1303
Stahl, W. M. See Aminabhavi, T. M., 857
Staikos, G.
—; Bokias, G.; Tsitsilianis, C.: The Viscometric Methods in the Investigation of the Polyacid–Polybase Interpolymer Complexes, 215
Stejskal, J. See Podešva, J., 1127
Stewart, C. W.: A New Mechanism for Increasing Tear Strength and Cut-Growth Resistance of Elastomers, 809
Stoessel, S. J.: The Use of Ultrasound to Initiate Ring-Opening Polymerization, 505
Stolarski, T. A.: External Lubrication of High-Temperature Thermoplastic Polymers, 897
Strong, A. B. See Pitt, W. G., 845
Su, A. C. See Liao, F.-S., 1801
Sudduth, R. D.: A Generalized Model to Predict the Viscosity of Solutions with Suspended Particles. I, 25
—; A New Method to Predict the Maximum Packing Fraction and the Viscosity of Solutions with a Size Distribution of Suspended Particles. II, 37
Sudo, K.
—; Shimizu, K.; Nakashima, N.; Yokoyama, A.: A New Modification Method of Exploded Lignin for the Preparation of a Carbon Fiber Precursor, 1485
Sun, F.
—; Ruckenstein, E.: Preparation of High Molecular Weight Monodisperse Polystyrene Latexes by Concentrated Emulsion Polymerization, 1279
Sun, J. See Zhong, X., 741
Sun, K. See Guo, Q., 547
Suzuta, T. See Noguchi, H., 1539
Švec, F. See Šmigol, V., 2033
Svilokos, A. B. See Freddi, G., 99
Swanson, C. L. See Trimnell, D., 1665
Szöcs, F. See Hloušková, Z., 1843

Tackie, M.
—; Martin, G. C.: The Polymerization Mechanism and Kinetics of DGEBA with BF_3–MEA, 793
Taher, N. H. See Dessouki, A. M., 1249
Takagishi, T. See Mori, R., 1223
Takahashi, S. See Otake, K., 355
Takaku, H. See Kojima, T., 1353
Takechi, S.
—; Matsuda, H.: Cross-Linking of Bisepoxide with Divalent Metal Salts of *p*-Aminobenzoic Acid and Diamine, 1105
Takigami, S. See Shimada, M., 1121
Tam, C. M. See Guiver, M. D., 1597
Tamiya, E. See Gotoh, M., 67
Tan, Q.
—; Ma, D. Z.: Further Study on the Miscibility of Poly(ethylene Terephthalate)–Polycarbonate Blends (Note), 747
Tanaka, T. See Ogata, N., 383
Tang, H.
—; Piao, J.; Chen, X.; Luo, Y.; Li, S.: The Positive Temperature Coefficient Phenomenon of Vinyl Polymer/CB Composites, 1795
Tanioka, A. See Nagaya, J., 1441
Tasaka, S. See Inagaki, N., 1433, 1963
Tejera, M. See Arroyo, M., 1009
Tezuka, Y. See Imai, K., 1525
Toki, S. See Hayashi, K., 411
Tomoi, M. See Iijima, T., 1859
Tong, S. N. See Kuo, W. F., 1297
Trask-Morrell, B. J.
—; Kottes Andrews, B. A.; Catalano, E. A.: Thermoanalytical Characteristics of Durable Press Treated Cotton Fabrics, 1475

Trimnell, D.
—; Swanson, C. L.; Shogren, R. L.; Fanta, G. F.: Extrusion Processing of Granular Starch-*g*-Poly(methyl acrylate): Effect of Extrusion Conditions on Morphology and Properties, 1665
Tripathy, D. K. See Kole, S., 529; See Mukhopadhyay, K., 1089
Trumbo, D. L. See Lin, J. C., 1549
Trushinski, B. J.
—; Dickson, J. M.; Childs, R. F.; McCarry, B. E.: Photochemically Modified Thin-Film Composite Membranes. I. Acid and Ester Membranes, 187
Tsitsilianis, C. See Staikos, G., 215
Tsukada, M. See Freddi, G., 99
—; Shiozaki, H.; Crighton, J. S.: The Preparation of Poly[*N*(*n*-butoxymethyl)-methacrylamide] Grafted Silk Fibers by Polymerization Using a Low pH System, 1409
—; Shiozaki, H.; Crighton, J. S.; Kasai, N.: Reductions in Rate of Yellowing Following Irradiation of Poly[*N*(*n*-butoxymethyl)methacryl-amide]-grafted Silk Fibers, 113

Uchida, Y. See Noguchi, H., 1539
Ueda, K. See Funaki, Y., 419
Uehara, K.
—; Maekawa, A.: Undoping Effect of Electropolymerized Polymer for Two-Layer Organic Photovoltaic Cells Based on Polymer/Dye Junction, 2207
Urata, Y. See Kojima, T., 1353
Uyama, Y. See Hoebergen, A., 1825

Vail, E. A. M. See Murphy, C. J., 1321
Vallés, J. L. See Best, M., 319
Van der Does, L. See Chen, G., 1189
Vandenberg, E. J. See Aguilar-Vega, M., 107
Varadarajan, P. V. See Lokhande, H. T., 495
Varley, R. J. See Jackson, M. B., 1259
Varma, I. K. See Krishnan, P. S. G., 1015
Vašš, F. See Lustoň, J., 219
Venkatraman, S.: Deformation Behavior of Poly(dimethyl siloxane) Networks. I. Applicability of Various Theories to Modulus Prediction, 1383
Vijayraghavan, K. M. See Moharir, A. V., 1869
Viswanathan, T.
—; Jethmalani, J.: Aqueous Ring-Opening Metathesis Polymerization of *exo*-7-Oxabicyclo[2.2.1]hept-5-ene-2,3-dicarboximide, 1289
Vizzini, J. C.
—; Shi, J.-F.; Chien, J. C. W.: Solid-State NMR Characterization of a Superactive Supported Ziegler–Natta Catalyst, 2173
Vosa, R. See Di Fiore, C., 1997

Wan, G. X. See Zhang, S. S., 405
Wang, D. See Xiu, Y., 867
Wang, J.-S. See Sada, E., 939
Wang, Q.
—; Kaliaguine, S.; Ait-Kadi, A.: Catalytic Grafting: A New Technique for Polymer–Fiber Composites. III. Polyethylene–Plasma-treated Kevlar™ Fibers Composites: Analysis of the Fiber Surface, 121
Wang, T.-H. See Chen, K.-M., 291
Warden, P. G. See Jackson, M. B., 1259

Wasserman, S.
—; Johari, G. P.: Relaxations in Thermosets. XXV. Calorimetric Studies of the Curing Kinetics of Pure and Rubber-Containing Epoxy-Based Thermosets, 905
Weaver, D. G. See Parker, A. A., 1701
Wey, B.-S. See Kuo, P.-L., 1953
Whitaker, A. F.
—; Jang, B. Z.: The Mass Loss Mechanisms of Polymers in a Radio Frequency Induced Atomic Oxygen Environment, 1341
Widmaier, J.-M. See Derrough, S. N., 1183
Wilchester, J. W. See Pham, H. T., 1425
Wohlfarth, C.: COR-eos and BH-eos Parameters for Polymer Melts with the Error in the All-Variables Method, 1923
Woo, S. I. See Kim, I., 721
Wortmann, F.-J.
—; Deutz, H.: Characterizing Keratins Using High-Pressure Differential Scanning Calorimetry (HPDSC), 137
Wright, J. R.
—; Mathias, L. J.: New Lightweight Materials: Balsa Wood–Polymer Composites Based on Ethyl α-(Hydroxymethyl)acrylate, 2241
—; Mathias, L. J.: Physical Characterization of Wood and Wood–Polymer Composites: An Update, 2225
Wu, Y. See Plummer, C. J. G., 730

Xiao, J. See Lin, X., 231
Xie, H.
—; Seay, M.; Oliphant, K.; Baker, W. E.: Search for Nonoxidative, Hydrogen-Abstracting Initiators

Useful for Melt Grafting Processes, 1199
Xiu, Y.
—; Wang, D.; Hu, C.; Ying, S.; Li, J.: Morphology–Property Relationship of Segmented Polyurethaneurea: Influences of Soft-Segment Structure and Molecular Weight, 867
Xu, J. See Lin, X., 231

Yamada, T.
—; Nonomura, C.: An Attempt to Simulate the Bowing Phenomenon in Tenter with Simple Models, 1399
Yampol'skii, Yu. P.
—; Shishatskii, S. M.; Shantorovich, V. P.; Antipov, E. M.; Kuzmin, 8 N. N.; 52Rykov, S. V.; Khodjaeva, V. L.; Platé, N. A.: Transport Characteristics and Other Physicochemical Properties of Aged Poly(1-(trimethylsilyl)-1-propyne), 1935
Yanase, N. See Noguchi, H., 1539
Yang, J.
—; Garton, A.: Primers for Adhesive Bonding to Polyolefins, 359
Yao, K. D.
—; Peng, T.; Goosen, M. F. A.; Min, J. M.; He, Y. Y.: pH-Sensitivity of Hydrogels Based on Complex Forming Chitosan: Polyether Interpenetrating Polymer Network, 343
Yao, Y.
—; Liu, X.; Zhu, Y.: The Influence of the Surface Cross-linking of the High-Density Polyethylene Induced by Plasma Treatment on the Durability of Treatment Efficiency, 57
Yaseen, M. See Raju, K. V. S. N., 2101
Yasuda, T. See Otake, K., 355
Yee, A. F. See Pearson, R. A., 1051
Ying, S. See Xiu, Y., 867
Yokoyama, A. See Sudo, K., 1485
Yokoyama, C. See Otake, K., 355
Yoshida, K. See Ogata, N., 383
Yoshida, N. See Ogata, N., 383
Yu, L. See Zhong, X., 741
Yu, X.-D. See Liu, F.-T., 425
Yu, Y. See Lin, X., 231

Zanderighi, L. See Cao, N., 1831
Zeng, H. See Zhang, Z., 1987
Zhang, S. S.
—; Wan, G. X.: Single-Ion Conduction and Lithium Battery Application for Ionomeric Cross-Linking Polymer, 405
Zhang, Y. See Zhong, X., 741
Zhang, Z.
—; Zeng, H.: Nucleation and Crystal Growth of PEEK on Carbon Fiber, 1987
Zhao, W. See Zhong, X., 741
Zheng, G. See Lin, X., 231
Zhong, X.
—; Yu, L.; Zhao, W.; Zhang, Y.; Sun, J.: Radiation Stability of PTFE with Different Crystallinity, 741
Zhu, K. J. See Huang, M. W., 563
Zhu, Y. See Yao, Y., 57
Zilberman, E. N.
—; Lerner, F.; Joseph, H. M.; Alon, M.: Properties of Hydroxypropyl Methylcellulose–Polyvinyl Alcohol Water Systems, Dispersants in Vinyl Chloride Suspension Polymerization, 435
Zülle, B. See Plummer, C. J. G., 730, 751